

TITLE

COMPOSITION AND METHOD FOR MAKING FUEL CELL  
COLLECTOR PLATES WITH IMPROVED PROPERTIES

ABSTRACT

- 5        A method and composition is disclosed for making conductive flow  
field separator plates having reduced resistivity, lower weight and lower  
cost. The plates are made by blending from about 0.5 wt% to about 40  
wt%, preferably from about 1 wt% to about 30 wt%, most preferably from  
about 5 wt% to about 20 wt%, of the liquid crystal polymer; from about 0.5  
10      wt% to about 40 wt%, preferably from about 1 wt% to about 30 wt%, most  
preferably from about 5 wt% to about 20 wt% of the poly(styrene-co-maleic  
anhydride); and from about 20 wt% to about 99 wt%, preferably from about  
60 wt% to about 98 wt%, most preferably from about 70 wt% to about 90  
wt% of the conductive filler. The blend is then moulded to form the  
15      conductive flow field separator plates.

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